

## **Grade 5 Academic Standards**

### **Unit 2 Lesson**

#### **Science**

##### **Standard 1 The Nature and Science of Technology**

###### **Technology and Science**

- 5.1.5 Explain that technology extends the ability of people to make positive and/or negative changes in the world.
- 5.1.6 Explain how the solution to one problem, such as the use of pesticides in agriculture or the use of dumps for waste disposal, may create other problems.
- 5.1.7 Give examples of materials not present in nature, such as cloth, plastic, and concrete that have become available because of science and technology.

##### **Standard 4 The Living Environment**

###### **Interdependence of Life and Evolution**

- 5.4.5 Explain how changes in an organism's habitat are sometimes beneficial and sometimes harmful.

#### **Social Studies**

##### **Standard 2 Civics and Government**

###### **Roles of Citizens**

- 5.2.11 Use a variety of information resources to identify and evaluate contemporary issues that involve civic responsibility, individual rights, and the common good.

##### **Standard 5 Individuals, Society, and Culture**

- 5.5.6 Read accounts of how scientific and technological innovations have affected the way people lived in the early United States, and make predictions about how future scientific and technological developments may change cultural life.

**Unit 2 - Activities 2, 3 and 4 satisfy the following Indiana academic standards:**

**Science**

- 5.1.1 Recognize and describe that results of similar scientific investigations may turn out differently because of inconsistencies in methods, materials, and observations.
- 5.1.5 Explain that technology extends the ability of people to make positive and/or negative changes in the world.
- 5.1.6 Explain how the solution to one problem, such as the use of pesticides in agriculture or the use of dumps for waste disposal, may create other problems.
- 5.1.7 Give examples of materials not present in nature, such as cloth, plastic, and concrete that have become available because of science and technology.
- 5.2.7 Read and follow step-by-step instructions when learning new procedures.
- 5.3.8 Investigate, observe, and describe that heating and cooling cause changes in the properties of materials, such as water turning into steam by boiling and water turning into ice by freezing. Notice that many kinds of changes occur faster at higher temperatures.
- 5.4.5 Explain how changes in an organism's habitat are sometimes beneficial and sometimes harmful